I 49.89:82-1/474/no.C14

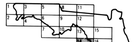
MMS 85-0011
FWS/OBS-82/47.1

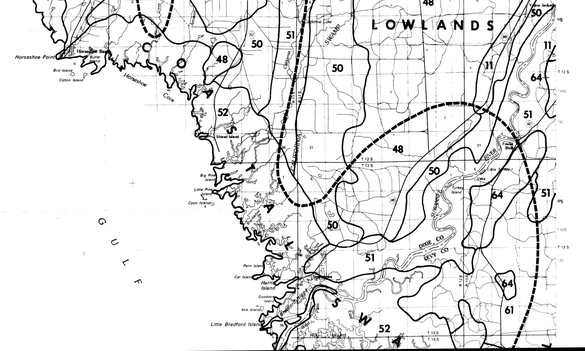
MAP C14

Cedar Keys

FLORIDA ECOLOGICAL ATLAS

SOILS AND LANDFORMS





ORIGINAL

Scale 1:100 000

TOPICAL MAPS IN THIS ATLAS:
A. BIOLOGICAL RESOURCES
B. SOCIOECONOMIC FEATURES
C. SOILS AND LANDFORMS
D. OIL, GAS AND MINERALS
E. HYDROLOGY AND CLIMATOLOGY

1984

Produced by U.S. Fish and Wildlife Service and Minerals Management Service

Projection and 10,000 meter grid, zone 17, Universal

100

1,600

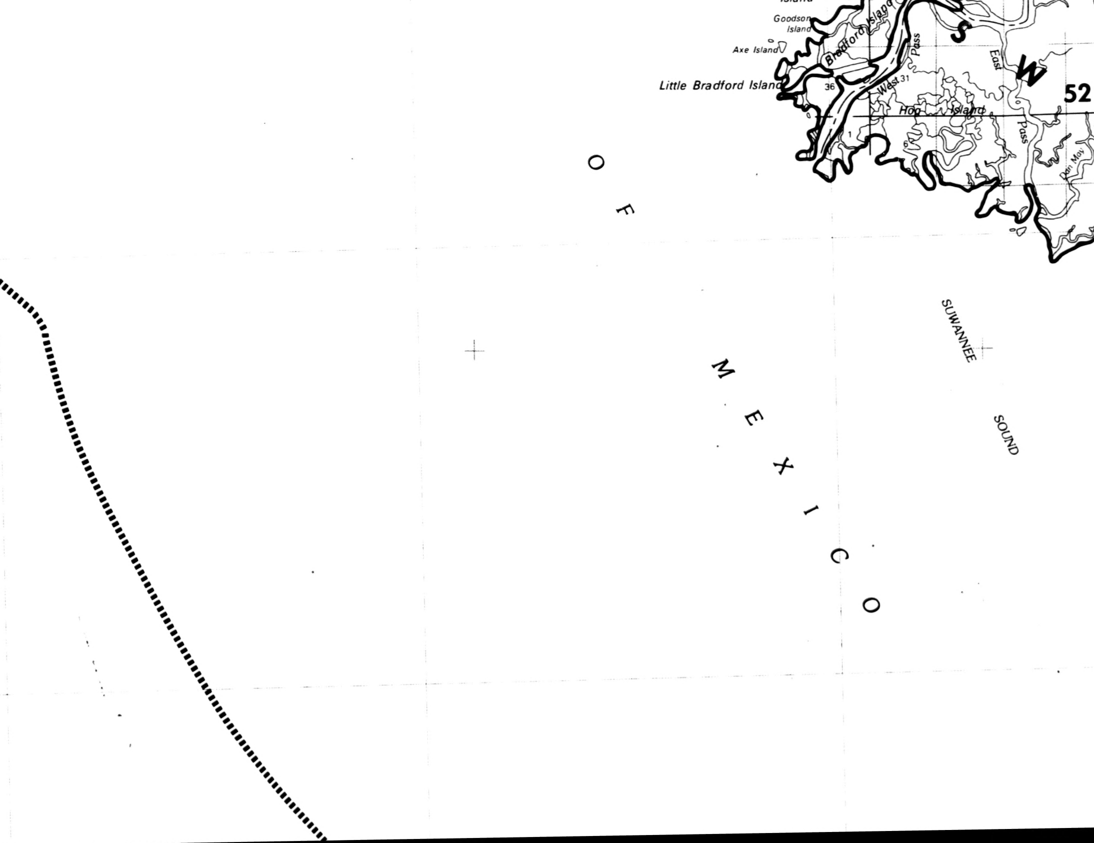
324

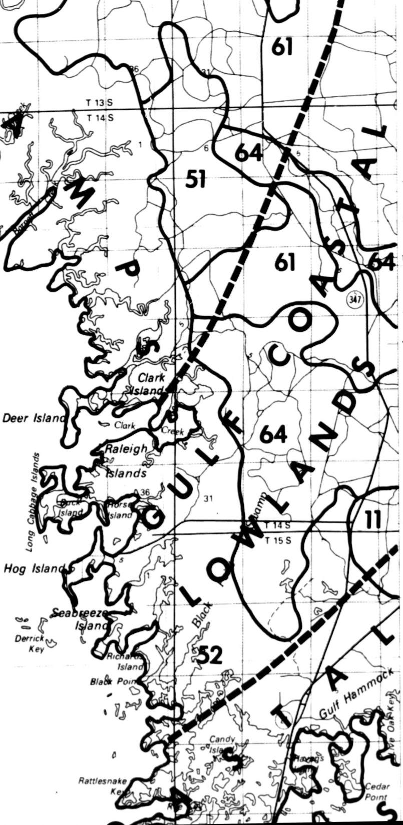
15

75

1,775

323


Goodson Island
Axe Island
Bradford Island
Little Bradford Island
36
West
31
Pass
East
S
W
52
Hog
Island
1
6
Pass
Dan May
O F
M E X I C O
SUWANNEE
SOUND


61
T 13 S
T 14 S
64
51
1 800
324
61
64
100
347
T 14 S
15′
Clark Island
Deer Island
Clark Creek
Raleigh Islands
Long Cabbage Islands
Buck Island
Horse Island
64
11
1 775
T 14 S
T 15 S
Hog Island
75
Seabreeze Island
Derrick Key
Richards Island
Black Point
52
323
Black
Gulf Hammock
Candy Island
T 15 S
Rattlesnake Key
Cedar Point
Live Oak Key
Swamp
GULF COASTAL LOWLANDS
COASTAL
SWAMPS

Produced by U.S. Fish and Wildlife Service and Minerals Management Service

Projection and 10,000 meter grid, zone 17: Universal Transverse Mercator
25,000-foot grid ticks based on Florida coordinate system, west zone

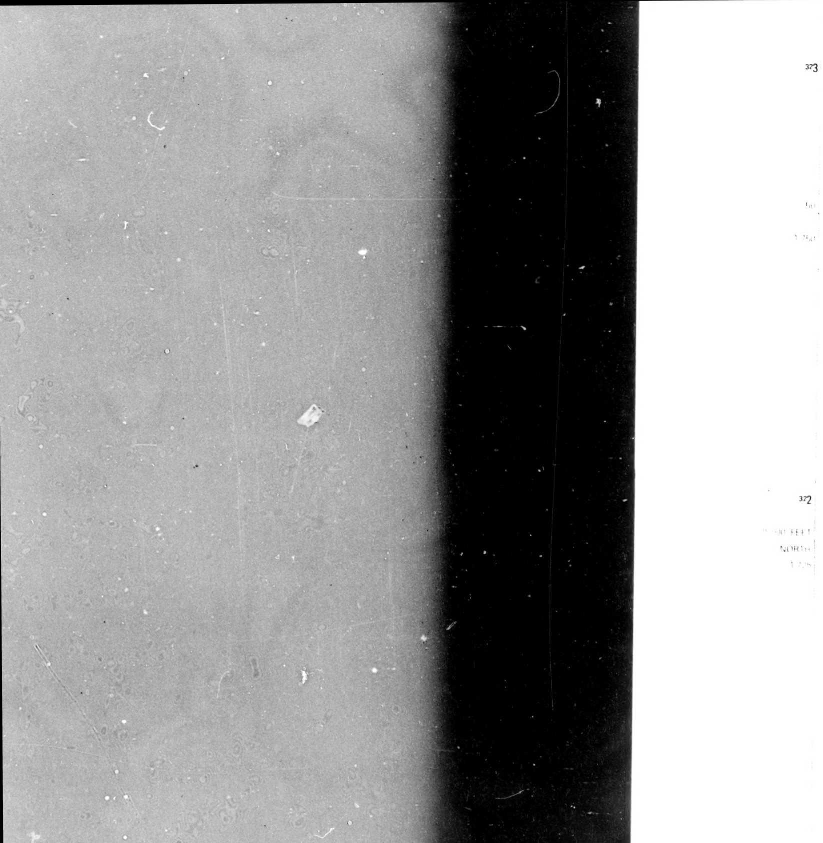
Overlay material compiled in 1983 from latest available data obtained from Federal, State and Local government agencies and other sources.

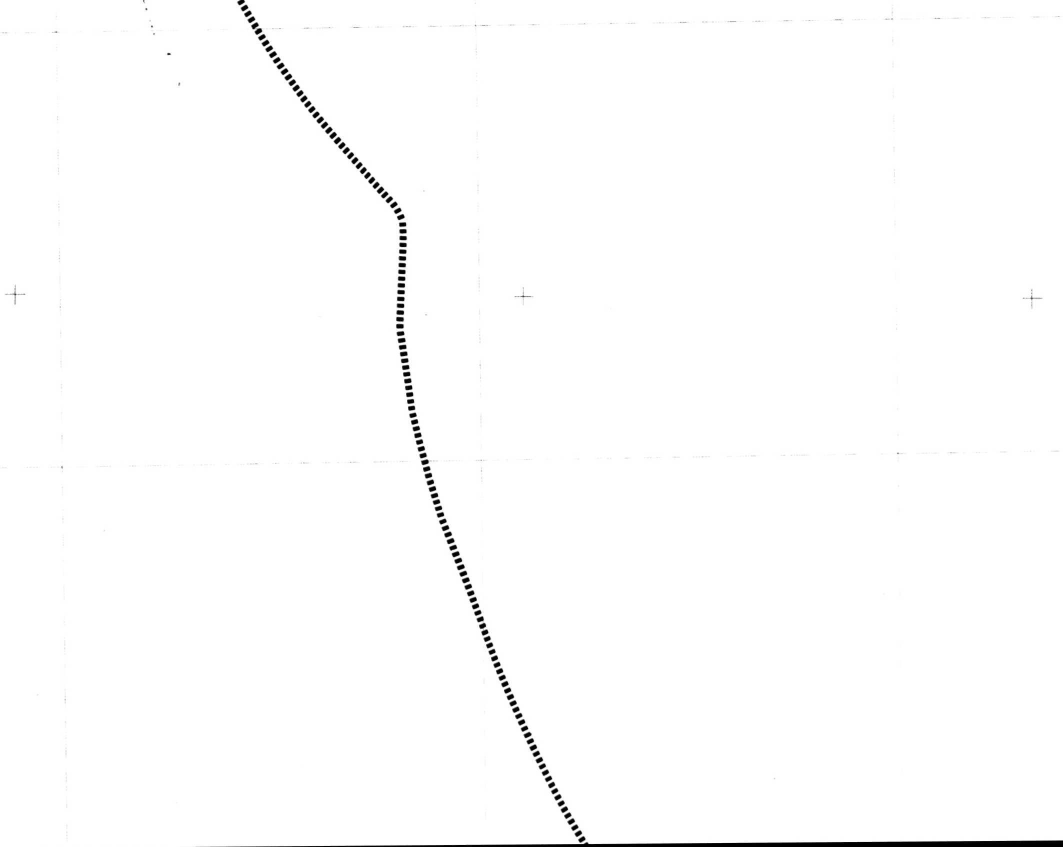
MAJOR SURFACE LANDFORMS

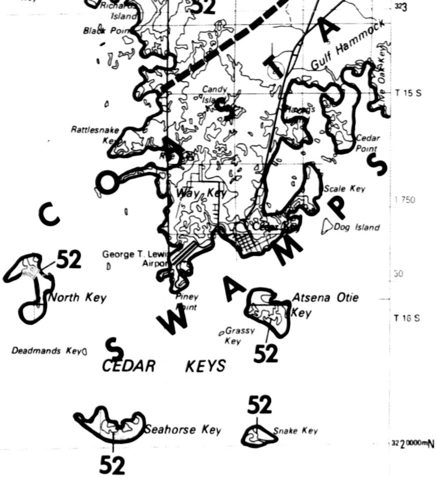
- Western Highlands
- Escambia Valley
- Gulf Coastal Lowlands
- Gulf Barrier Chain
- Marianna Lowlands
- New Hope Ridge
- Greenhead Slope
- Fountain Slope
- Grand Ridge
- Northern Highlands
- Coastal Swamps
- Brooksville Ridge
- Western Valley

SOIL ASSOCIATIONS

1. Lakeland-Eustis-Lakewood Association
2. Lakeland, Ruston, and Norfolk-Sunsweet, Carnegie and Cuthbert Association
3. Red Bay-Blakely Association
4. Tifton-Carnegie-Faceville Association
5. Norfolk-Ruston-Savannah Association
6. Tifton-Irvington-Lynchburg Association
7. Klej-Leon Association
8. Huckabee-Kalmia-Izagota Association
9. Coastal Dune Land and Beach-Tidal Marsh Association
10. Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association
11. Lakeland-Paola-Kureb-St. Lucie-Rimini Association
12. Lakeland-Troup Association
13. Troup-Orangeburg Association
14. Dothan-Orangeburg Association


$^{32}3$
50
1 750
$^{32}2$
000 FEET
NORTH
1 725




Richard Island
52
323
Black Point
Gulf Hammock
A
T
Live Oak Key
Candy Island
S
T 15 S
Rattlesnake Key
Cedar Point
S
O
Way Key
Scale Key
1 750
C
P
Cedar Key
Dog Island
52
George T. Lewis Airport
M
50
North Key
Piney Point
A
Atsena Otie Key
W
T 16 S
Grassy Key
Deadmands Key
S
52
CEDAR KEYS
52
Seahorse Key
Snake Key
52
322 0000mN
1 725
25

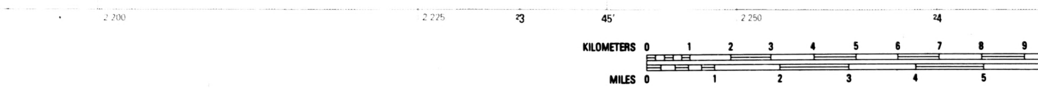
3. Red Bay-Blakely Association
4. Tifton-Carnegie-Faceville Association
5. Norfolk-Ruston-Savannah Association
6. Tifton-Irvington-Lynchburg Association
7. Klej-Leon Association
8. Huckabee-Kalmia-Izagota Association
9. Coastal Dune Land and Beach-Tidal Marsh Association
10. Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association
11. Lakeland-Paola-Kureb-St. Lucie-Rimini Association
12. Lakeland-Troup Association
13. Troup-Orangeburg Association
14. Dothan-Orangeburg Association
15. Red Bay-Lucy Association
16. Chipley-Scranton Association
17. Johns-Leaf Association
18. Salt Water Marsh-Bayvi-Dirego Association
19. Fuquay-Lucy-Troup Association
20. Dothan-Orangeburg-Tifton Association
21. Lakeland-Faceville Association
22. Chipley-Albany-Leon Association
23. Ardilla-Leefield-Stilson Association
24. Tifton-Faceville-Greenville Association
25. Norfolk-Ruston-Goldsboro Association
26. Tifton-Faceville-Marlboro Association
27. Lakeland-Cuthbert-Shubuta Association
28. Blanton-Klej-Plummer Association
29. Goldsboro-Lynchburg-Rains Association
30. Kureb-Resota-Mandarin Association
31. Lakeland-Foxworth-Centenary Association
32. Leefield-Albany-Stilson Association
33. Hurricane-Chipley-Albany Association
34. Pottsburg-Leon-Rutlege Association
35. Plummer-Pelham Association
36. Rutlege-Allanton-Pickney Association
37. Chipley-Albany-Stilson Association
38. Leon-Albany-Plummer-Chipley-Osier Association
39. Dunbar-Bladen Association
40. Dothan-Stilson-Lucy Association
41. Ardilla-Leefield-Pansey Association
42. Chipley-Albany-Blanton Association
43. Leon-Felda-Matmon Association
44. Dothan-Orangeburg-Red Bay Association
45. Alpin-Blanton-Eustis Association
46. Orangeburg-Lucy-Dothan Association
47. Chipley-Albany-Plummer Association
48. Leon-Mascotte-Rutlege Association
49. Broward, var.-Matmon-Osier Association
50. Manatee, var.-Felda, Var.-Copeland, Var. Association
51. Fresh Water Swamp, Shallow to Limestone Association
52. Salt Water Marsh and Swamp-Coastal Dunes Association
53. Alpin-Blanton Association
54. Chipley-Blanton-Swamp Association
55. Adamsville, var.-Chiefland-Blanton Association
56. Candler-Apopka Association
57. Jonesville-Chiefland-Archer Association
58. Arredondo-Gainesville Association
59. Hernando-Archer-Chiefland Association
60. Sparr-Lochloosa-Tavares Association
61. Adamsville-Osier Association
62. Bushnell-Wabasso-Felda Association

29°00'
84°00'
21
2 175 000 FEET NORTH

THE FLORIDA ECOLOGICAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES, NATIONAL COASTAL ECOSYSTEMS TEAM (FWS/OBS - 82/47) AND THE MINERALS MANAGEMENT SERVICE FOR COASTAL PLANNERS, DECISION MAKERS, AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS, AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY AREA INCLUDES THE COASTAL COUNTIES: ESCAMBIA, SANTA ROSA, OKALOOSA, WALTON, WASHINGTON, BAY, CALHOUN, GULF, FRANKLIN, WAKULLA, JEFFERSON, TAYLOR, DIXIE, LEVY, CITRUS AND HERNANDO, AND EXTENDS OFFSHORE APPROXIMATELY 10 MILES. THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)
1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0


2 200
2 225
23
45′
2 250
24
KILOMETERS 0 1 2 3 4 5 6 7 8 9
MILES 0 1 2 3 4 5

PRIMARY SOURCES OF MAPPED INFORMATION:

LANDFORMS: Physiographic Map of Florida, State Bureau of Geology, 1980.

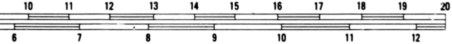
SOILS: General Soils Atlas of Florida, Division of State Planning, 1975. General Soils Atlas of Florida, U.S. Soil Conservation Service, 1982.

ACTIVE DUNES: Black and White Aerial Photography, 1:80,000 Scale, Mark Hurd Aerial Surveys Inc., 1980. Topographic Maps, 1:24,000 Scale, U.S. Geological Survey, various dates.

GEOLOGIC FAULTS: Map of Escambia and Santa Rosa Counties Showing Contours on top of the Lower Limestone of the Floridan Aquifer, State Bureau of Geology, 1965.

FOR COMPLETE REFERENCES SEE MAP NARRATIVE

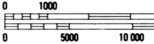
2 275
0 000
2 300
30'
25
2 325
26
50
2


10
11
12
13
14
15
16
17
18
19
20
6
7
8
9
10
11
12

SCALE 1:100 000

1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND

CONTOUR INTERVAL 5 METERS

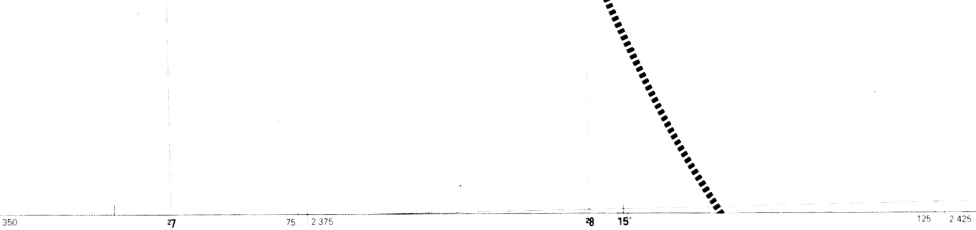

0
1000
0
5000
10 000

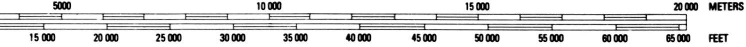
11. **Lakeland-Paola-Kureb-St. Lucie-Rimini Association: Nearly level to steep, excessively drained soils, sandy throughout.**

48. **Leon-Mascotte-Rutlege Association: Nearly level, poorly drained sandy soils with weakly cemented sandy subsoil, and poorly drained sandy soils with a weakly cemented sandy subsoil layer underlain by loamy subsoil, and very poorly drained soils sandy throughout.**

50. **Manatee, var.-Felda, Var.-Copeland, Var. Association: Nearly level, very poorly and poorly drained sandy soils with loamy subsoils, and very poorly drained sandy soils with loamy subsoils, shallow to limestone.**

51. **Fresh Water Swamp, Shallow to Limestone Association: Nearly level, very poorly drained soils, shallow to limestone, subject to prolonged flooding.**


350
27
75
2 375
28
15′
125
2 425


5000
10 000
15 000
20 000
METERS
15 000
20 000
25 000
30 000
35 000
40 000
45 000
50 000
55 000
60 000
65 000
FEET

52. **Salt Water Marsh and Swamp-Coastal Dunes Association:** Nearly level, very poorly drained soils subject to frequent flooding by tidal waters, and somewhat excessively drained sandy soils.

61. **Adamsville-Osier Association:** Nearly level to gently sloping, somewhat poorly to poorly drained sandy soils.

64. **Leon-Mascotte-Surrency Association:** Nearly level, poorly drained sandy soils with weakly cemented sandy subsoil, and poorly drained sandy soils with a weak cemented sandy subsoil layer underlain by loamy subsoil and very poorly drained snady soils with clayey subsoil.

E=__ft/yr ⊢- - - - - - -⊣	BEACH EROSION AREA (Period of Record: 1957-1981; Univ. of West Florida, 1981)
A=__ft/yr ⊢———⊣	BEACH ACCRETION AREA (Period of Record: 1957-1981; Univ. of West Florida, 1981)
■	GULF BARRIER ISLAND
Ⓓ	ACTIVE DUNE AREA

U
D

U
D

1 700 000 FEET
WEST
29°00′
29
150
2 450
300000mE
175 000 FEET WEST
2 475
83°00′

NORMAL FAULT
(Showing relative vertical movement; U, up, and D, down)

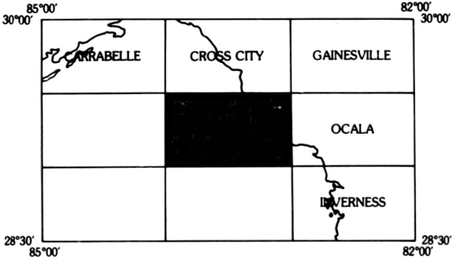
SUB-SURFACE NORMAL FAULT
(Showing relative vertical movement, U, up, and D, down)

STUDY AREA BOUNDARY

Offshore

Inland (County)

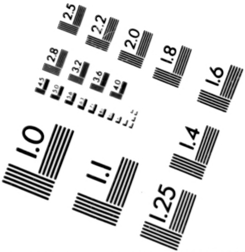
Inland (State)


85°00′
82°00′
30°00′
30°00′
CARRABELLE
CROSS CITY
GAINESVILLE
OCALA
INVERNESS
28°30′
28°30′
85°00′
82°00′

53.	Alpin-Blanton Association
54.	Chipley-Blanton-Swamp Association
55.	Adamsville, var.-Chiefland-Blanton Association
56.	Candler-Apopka Association
57.	Jonesville-Chiefland-Archer Association
58.	Arredondo-Gainesville Association
59.	Hernando-Archer-Chiefland Association
60.	Sparr-Lochloosa-Tavares Association
61.	Adamsville-Osier Association
62.	Bushnell-Wabasso-Felda Association
63.	Blichton-Flemington-Kanapaha Association
64.	Leon-Mascotte-Surrency Association
65.	Lynne-Pomona-Pompano Association
66.	Candler-Paola-Tavares Association
67.	Candler-Adamsville-Pompano Association
68.	Arredondo-Kendrick Association
69.	Broward-Boca Association
70.	Panasoffkee-Bushnell Association
71.	Myakka-Basinger Association
72.	Meggett, var.-Pompano Association
73.	Terra Ceia-Placid Association
74.	Arredondo-Sparr-Kendrick Association
75.	Candler-Lake Association
76.	Masaryk Association
77.	Nobleton-Blichton-Flemington Association
78.	EauGallie-Wabasso-Basinger Association
79.	Paisley-Floridana-Wabasso Association
80.	Okeelanta-Aripeka-Terra Ceia Association
81.	Homosassa-Weekiwachee-Lacoochee Association
82.	Floridana-Basinger Association
83.	Salt Water Marsh and Swamp Association
84.	Fresh Water Swamp and Marsh Association
85.	Blichton-Lochloosa-Kendrick Association
86.	Paisley-Bushnell Association
87.	Myakka-Pomello Association

MICROFILMED FROM
BEST AVAILABLE COPY

MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)


2.5
2.2
2.0
1.8
1.6
2.8
3.2
3.6
4.0
4.5
5.0
1.0
1.1
1.25
1.4